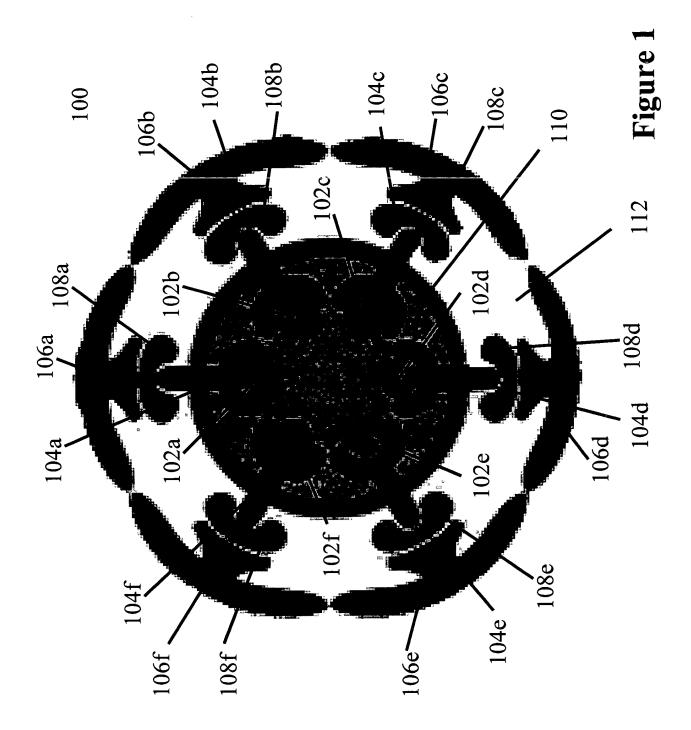
Applicants: Vitaliano et al.
Serial No.: Not yet assigned Filing Date: Herewith
Title: Quantum Information Processing Elements and
Quantum Information Processing Platforms Using Such Elements
Atty.: John V. Bianco Reg. No. 36,748
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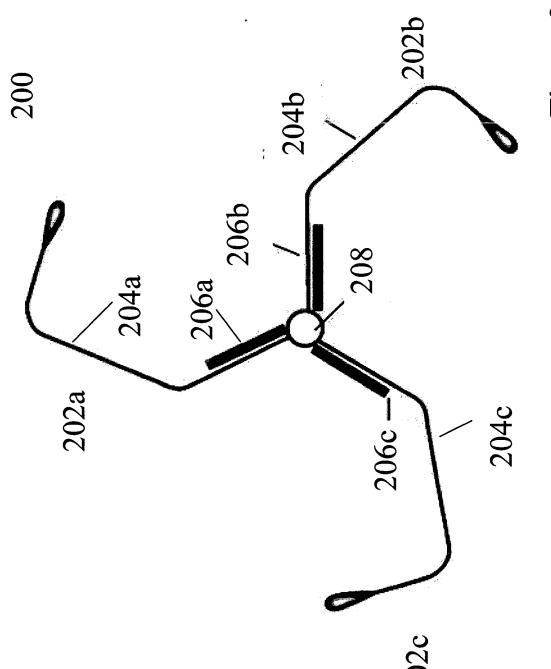
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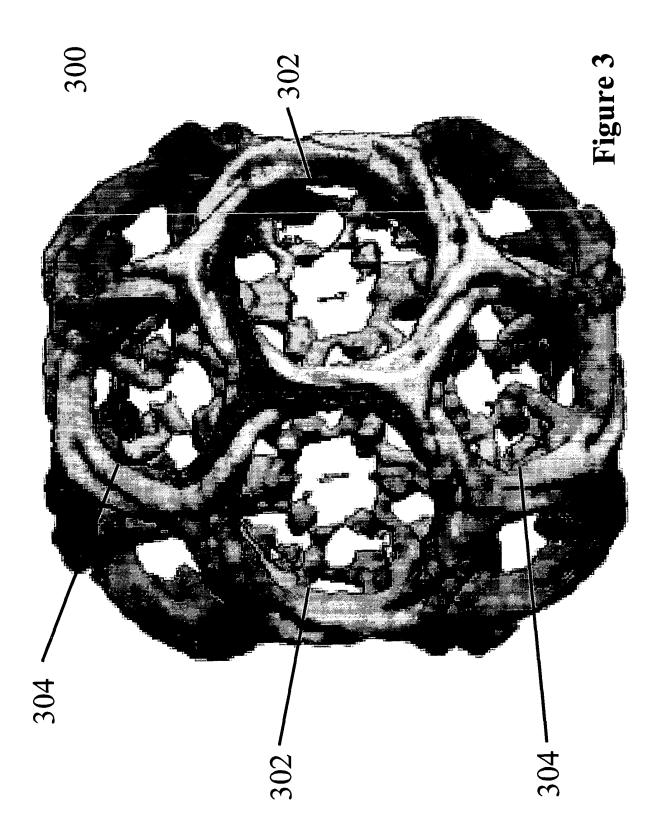
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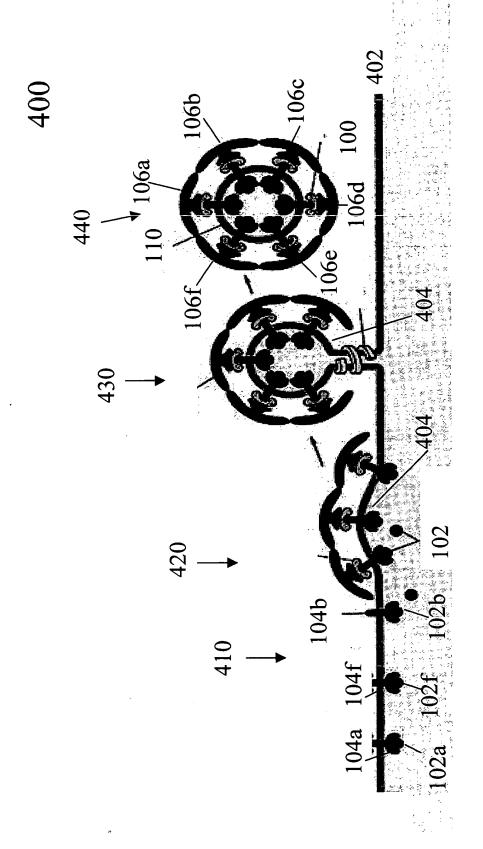
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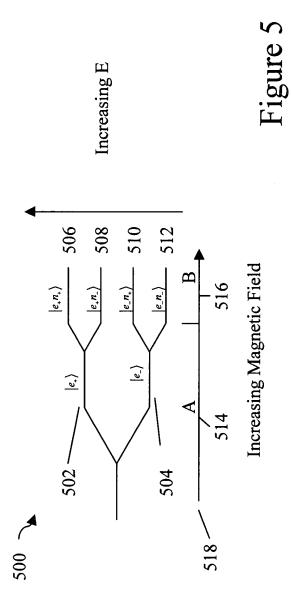
Quantum Information Processing Platforms Using Such Elements

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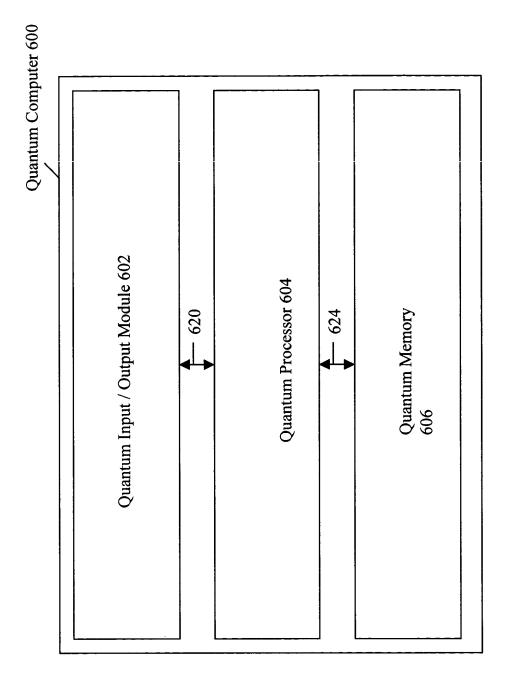
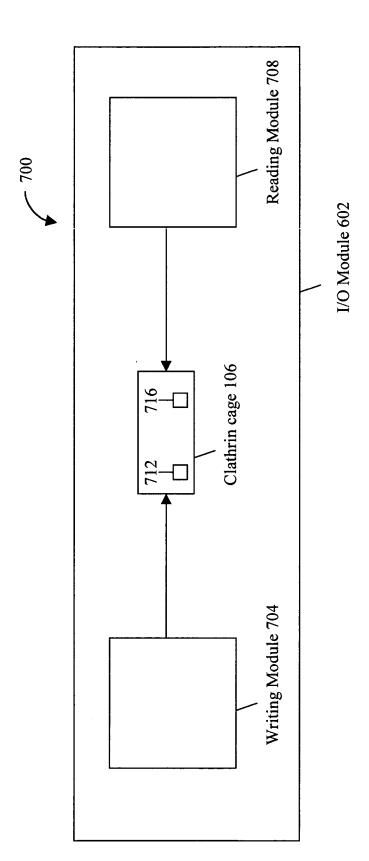


Figure 6

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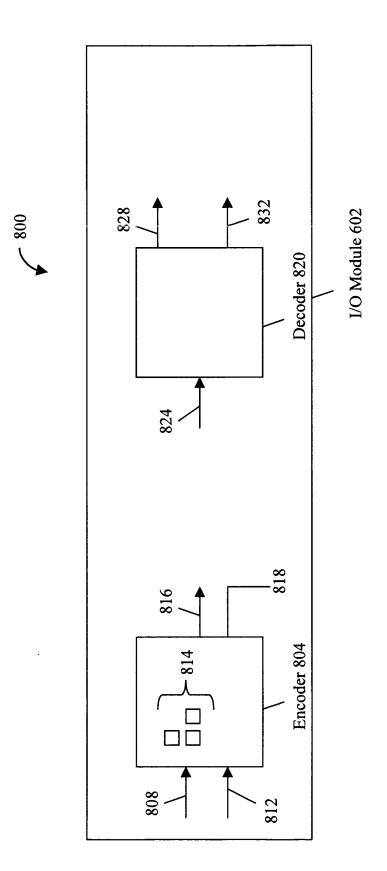


Figure 8

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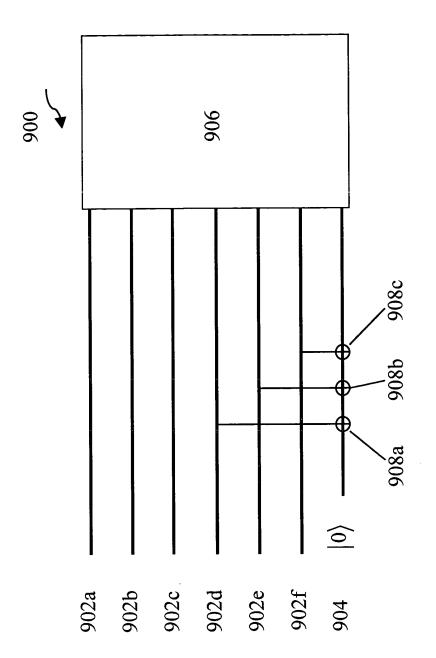
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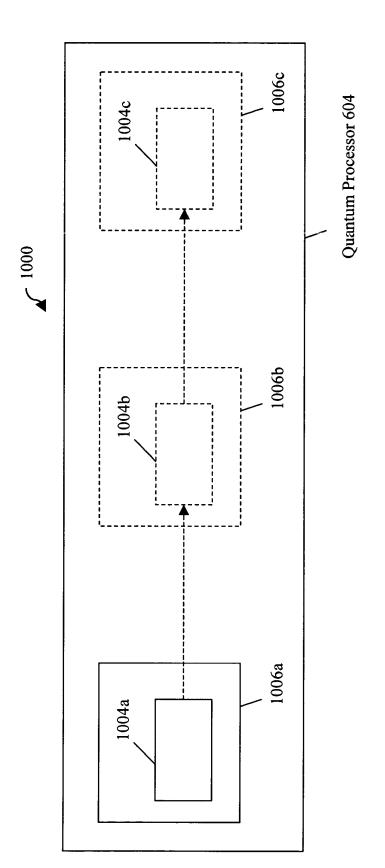
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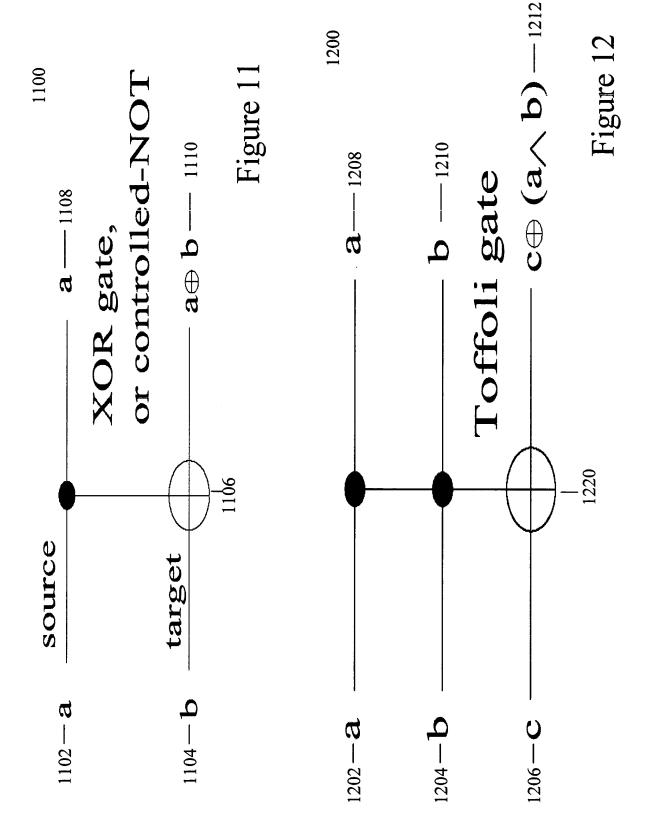
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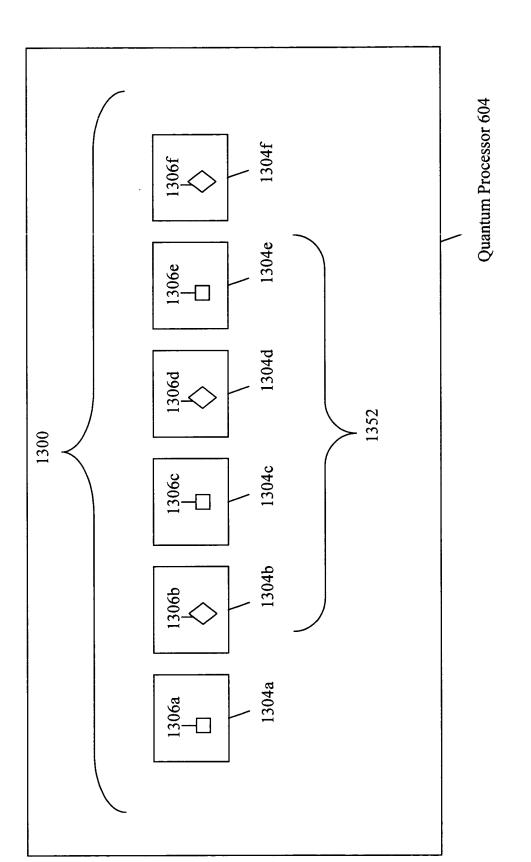


Figure 13

Perform a controlled-U operation on the Swap quantum information from nuclei Undo steps 1420, 1430, and 1440 Swap quantum information back to nuclear qubits of all the molecules Tag those A molecules which will Initialize qubit bus to ground state receive the unitary operation to inner electronic qubits Step 1410 Step 1460 Step 1430 Step 1450 Step 1420 Step 1440

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Figure 14

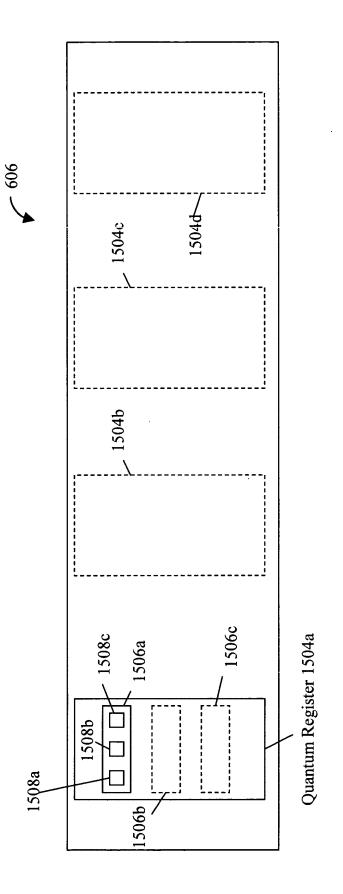


Figure 15

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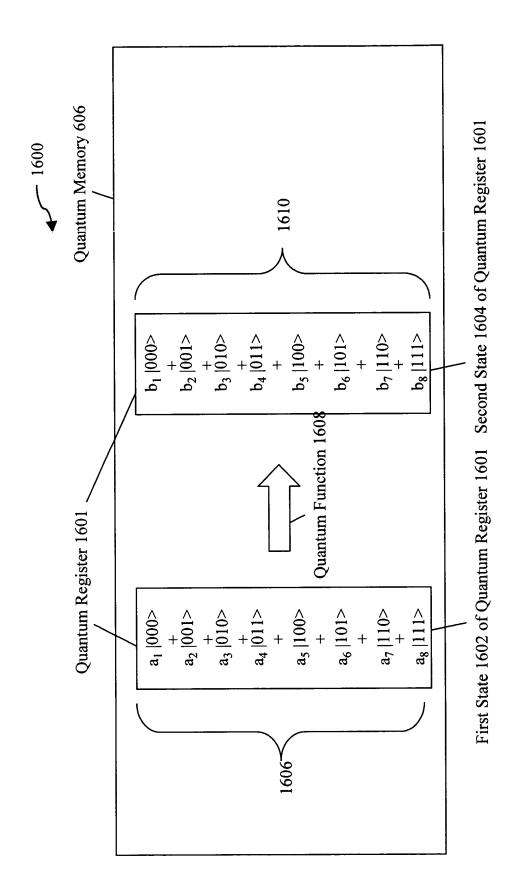


Figure 16

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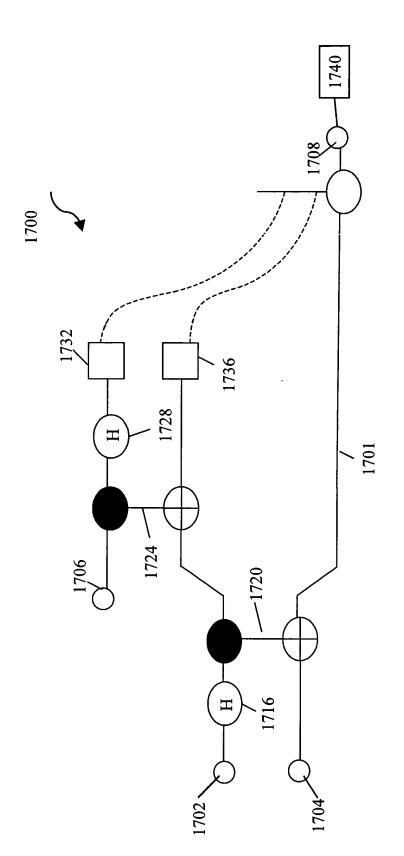


Figure 17